

0590

0906

#9

ENTERED



OIPE

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/016,253

DATE: 09/10/2002
TIME: 13:58:03

Input Set : A:\Cura042.app
Output Set: N:\CRF4\09102002\J016253.raw

```

3 <110> APPLICANT: Rastelli, Luca
4      Gould-Rothberg, Bonnie
5      Murphrey, Ryan
7 <120> TITLE OF INVENTION: Method of Detecting and Treating Tuberous Sclerosis
8      Complex Associated Disorders
10 <130> FILE REFERENCE: 21402-042
12 <140> CURRENT APPLICATION NUMBER: 10/016,253
C--> 13 <141> CURRENT FILING DATE: 2002-08-28
15 <150> PRIOR APPLICATION NUMBER: 60/254,268
16 <151> PRIOR FILING DATE: 2000-12-08
18 <160> NUMBER OF SEQ ID NOS: 25
20 <170> SOFTWARE: PatentIn Ver. 2.1
22 <210> SEQ ID NO: 1
23 <211> LENGTH: 2520
24 <212> TYPE: DNA
25 <213> ORGANISM: Homo sapiens
27 <400> SEQUENCE: 1
28 ggctctggct cgggctcggg ctggggctgg ggcttgggct ccagctcgcc ccctgcacct 60
29 gtgactcggc ggcgttgctc ctccgctgcc ccatggcccc gtcccggtcg cagctcgcc 120
30 tccgcgccgc ctactccggc ttcaagctcggt tagccggctt ctccatcttc ttctgtctgg 180
31 cggtgttcta ccgacaacccgg gggactgcgg cgatgggggg tctcgcaagt gtcctggcac 240
32 tgtgggtctt ggtgactcac gtatgttaca tgcaggattt ctggaggacc tggctcagag 300
33 ggctgcgcgg cttcttccttc gtgggtgctc tcttcgtccgc agtctccgtt tccgccttct 360
34 gcaccccttc ggcattggcc atcaccacccgc atcagagtct caaagacccgc aacagctact 420
35 acctctccgt tgcgttggac ttcatccct tcaggatggc cttccatctt agcctctacg 480
36 cccaccgctta cccgggtgtac ttgcggaca tcagcatccct tagtgatttc taaccagg 540
37 aatggaggta ccacaggcttggggccctcg ggatctggac tcagcttcgg agtcagcaag 600
38 ggagctcacc ccaaccctgt gggaaactccca gaaccatggc agagttatgt ggcccggtca 660
39 gtttctcaga aatctgtctg gtcccccctttt ggggaagata tagagcttt aaaggatac 720
40 tgccaatctg cccaatctgc ccgttagccc agcttagaggg cagcttagac ctttccaaat 780
41 agatctattt tcttagccct ctgagggtatc tctgttaagta gggccacgc aatgaattca 840
42 atgggttagga ttgaaactat ggcttagtgc acgggtttcc ttgttacccc 900
43 agacttcattt gaagctgtgt gtggggggagg catcaaaggat ctggtaaga gaggaatctt 960
44 tagtacagat ctccatcccc ttgttcccccac cctgttaccc tgaagtgtcg ggtagccaaa 1020
45 ctcacccgtc cttaggaaat tgacaattgg ctccatccctt aacgcacgcaca gttggacaga 1080
46 atccacccgtc cgtccgttccctt accttcccat ccagagtttgc ttgttacccatga ggggtgttagc 1140
47 gccagccaaac cattccatgt tgctcgcatat gcacacatga ccacacacac cagacgac 1200
48 ctccctcgat gaggctagac ttgaggacca caggaaacac accccctgcac ttggaaagg 1260
49 tttgggatcg gggcaacccgtt ggtggggggca agtggggatc ctccatctgt acttagtctc 1320
50 caacccctggcc cctcaactgca caagaccacc ctgaccgtga ggaccccttc cctgcaccac 1380
51 atccctaactc tgaccttca ccttctctt ctcctgttcaagg aactcttcgt agtggacatg 1440
52 ggcccaaggc cttacctaag cgagagggga gggcaggggc tgctactt cttctgttcaacc 1500
53 ttctctgtatg ggttgcactt ttgcacgtct actcttccac ttgggcactg ccccaacgtc 1560

```

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/016,253

DATE: 09/10/2002
TIME: 13:58:03

Input Set : A:\Cura042.app
Output Set: N:\CRF4\09102002\J016253.raw

54 tctgccttac ctgtgttatg ggcacttaag cagaataaca gcggccattt taaccagcaa 1620
 55 aaaaaaaaaaa aaataggggg gtgggcgggt ttgagagggg acaagagtgg gcaagatggg 1680
 56 ggctctagct gtctgatcat ctcctctaagt ttgggctac tagacggtat tcctcatctc 1740
 57 tggcccccta tggagacca ccagctgaga ttcctttgc tctcccgatt ctgtcccagc 1800
 58 cagggttagg atgcccacag actcaacatc cctgcagatt ccatctcccc accctaagcc 1860
 59 aaggttagatg gaaaaaggaa tctttctttt tctaccccg ccagactact tgggctcca 1920
 60 agtgaccag gatgtgtga ttcaagaagca gaaaggcagg agctagcacc tctctcacgc 1980
 61 tgggtacact tgcctggcc tgggtttgcc tcaccctggc ctttacagtg taaaaaacacc 2040
 62 atgggacttt agagcaggaa agataagga acagtgtcac ttctagagcc ttctgcttgt 2100
 63 agacgctcct actgatagag gaggtaaaga ctactgacct cccggctagg cctggcttaa 2160
 64 gccaggcgtg gcctgcgtca caaccttttgc cggtgtctta gcaacctgaa cctgagatct 2220
 65 tattcccgaa tcccacaggg cccaatgtgc agggctcagc ctggggccat ctccctttc 2280
 66 acctgggttg gtgagcatgt atttggagtg gtttcttcct gcatgttatta gccaaggaag 2340
 67 gacaaggagc tagagggtct gagtttagtc cagacttgc cccttcccc agcccatcac 2400
 68 aggtgctgg gtgcacaccc actccactga cgatgtccca ccaacatcca ggaggcgttc 2460
 69 tcccaaggac tttaaagcaa ataaaacata tattgtttag aaaaaaaaaaaa aaaaaaaaaaa 2520
 72 <210> SEQ ID NO: 2
 73 <211> LENGTH: 1860
 74 <212> TYPE: DNA
 75 <213> ORGANISM: Homo sapiens
 77 <400> SEQUENCE: 2
 78 aacgtgacc ctaagtctag cctggagcca gggctagagt ggtcatttct ttgtgggtg 60
 79 ctgccaggaa gggccagac ccacaggcta ctcaaaaggcc ctagagaccc ctcccccaggc 120
 80 aggtgctgcc ccaggaggag catgtcctgg ggtccggga ctgaagtcca tggcctca 180
 81 gccccccaca cccagaaacac cgcttgccta aggtgtttt gcctttagtg tggatgttt 240
 82 gctgtgttcc tgggtctaat tagcttccaa atcaggaccc ggagcctcta ccctggccca 300
 83 gccagccagt gtgagctctg gtctgtgaga tggcagcta cggggccagt gaggcagcatg 360
 84 tggggagg ggcaggctg ggacccagtg gtttacagac ctgtggccct cctggagcaa 420
 85 cttggcagct acggatccca gaaccccttg ggctttagt ccccccagagg ggagaggctc 480
 86 cacgttgcctt tccttccccca aaatccctt ctttgcgtg gtgtctggg ccaaaaggag 540
 87 tggcagagg actcggaggg cctaggggtc ccagtcgggg catctgtac tcctaagcac 600
 88 gacaagcata agtgcagggg accctggccct tgactccaac tggcctggcg ccagaacct 660
 89 ccaggccag agcagccag ctgcagccag cctgcctact atgggtatgt tcctggctca 720
 90 aggtccggag ggaggtttgg ggtatccctg cctgggtgcc tgggtgtgcc ctggggccctc 780
 91 tcagaagcac aaatgctgcc ccctggccgt gaggcagccaa caaggtgaat gtatatacg 840
 92 tgagaggccg gcactgccc gacgtggctg tgaacttgc tggatgtgc agtctgcacc 900
 93 ttctgtgcgt gatgtcccccc atctgtgacg ttcaactcac cgaggctgaa gaaaggaagc 960
 94 agggaaatg aaacgggggg ttctcgccc tgaccctgc ggaggagacg gtcctacca 1020
 95 ctgcgggtgg cttcatttcg ttttctgtat ttctgggtg ccacttaccc actcaatccc 1080
 96 agtggtccac cccacatcc ccaggaggatg agcagtcac tgccagctgc ctgtgattgg 1140
 97 tccccagtcctt ctattccca aggggaccct acagctctgg tggtaaaca ggaggctaa 1200
 98 gccacccaaac cagagccga tccttgccg agccaggagg agggatctgg ctgagaaaac 1260
 99 tgataggact ggaggcccccc accccaacca acactctctg gtttatgtga gtacgagaag 1320
 100 atcccgccct ggacatccct tcaaggccctt ctccctgtgc ccacccccc ccccccccccc 1380
 101 cccatatcac tatgaatcc ttgacccctg ctccaaagct tgccctaccc ggtcccgat 1440
 102 ctgtccggcc cagaagggtgg ctatgtggg ggcacaggat gaccagggtc tctttgtttt 1500
 103 tcatacagac ggtgggtgc cgcacccttc ctccatatg tgatgttgc agattgcctc 1560
 104 ccagttacgg tccctctgccc tgcatactgccc cccagtgac tatgtcatct gaatcgagcc 1620
 105 agcccaagt tccctccag cctctgttagg gccatggctg tggttactg ttgtgtgtct 1680

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/016,253

DATE: 09/10/2002
TIME: 13:58:03

Input Set : A:\Cura042.app
Output Set: N:\CRF4\09102002\J016253.raw

106 ttcattttt aaactgggtt tggggtttga ttttatttc tgtgggaac tttatTTTC 1740
107 ttggcaaata actaaagttc ttgtccatgt aattctgtg gtctctattc agcttgggtt 1800
108 tcatgtttta aaataaacaa tttaagaaa caaaaaaaaaaaaaaaa aaaaaaaaaaagc 1860
111 <210> SEQ ID NO: 3
112 <211> LENGTH: 750
113 <212> TYPE: DNA
114 <213> ORGANISM: Homo sapiens
116 <400> SEQUENCE: 3
117 ctgtttatc ctactcggtt agtttctac taatttcaag actagtgtt acattctaag 60
118 gtagttatct tagggttagat tcaagggttt agatgactaa cagttcagat ttctgtatca 120
119 atttttaaa cactagagaa taaaagtgtt ctagagaata aaagcagtt catagttaat 180
120 tctcaccaat tggccctttg ctatgtgtt gctttaggtt cacataggat aatatgtgtc 240
121 cacgtttcta ctggaaactg gtaaaagtgtt tcactggctg gaaaatggta tctctcttt 300
122 gtatacaaga tggtcatttgc acactgggtt tttatgttgc agttcttgc ttgtttgatt 360
123 gagctctttttaatgttgc acatgtgtt ttttgcgtt gaatggatg gaactgggtt 420
124 gaagttaaag gaaatattca ttttggaaact tggttcattt gaaaggaaat gcaagttca 480
125 aaatgaaaaaa taaaatgaaa aaggaaataa attattgtcc cagatggtca ctggagttt 540
126 aaaaaatggc tgcacacagt aaaactgttca aaaacaaaaa cttacctcat tattgggtt 600
127 cattttttgcgttgc acatgtgtt ttttgcgtt gtttgcgtt gtttgcgtt 660
128 caatcttgcgttgc acatgtgtt ttttgcgtt gtttgcgtt gtttgcgtt 720
129 agttaaaaaa atcatcgat atgtgttgcgttgc 750
132 <210> SEQ ID NO: 4
133 <211> LENGTH: 281
134 <212> TYPE: DNA
135 <213> ORGANISM: Homo sapiens
137 <400> SEQUENCE: 4
138 gggccccctcc gtctcagagc aactataccc tctacccctgg aaggagcagc agagagagaa 60
139 gccacaggcc accaggaggc ccagcaaaagc caccacat ggaagcttct cagccacccc 120
140 acctcccacc ctctgggggg tcagcacaag agttgtggc acaagccgtt tccgggacaa 180
141 ccggacacacaaacgggaaac atggccatca ggacccaaat gtgggtgcag gtctcaca 240
142 gccagtaaag ggaaagctgc ccaaaaaagaa ggacagaatt c 281
145 <210> SEQ ID NO: 5
146 <211> LENGTH: 1568
147 <212> TYPE: DNA
148 <213> ORGANISM: Homo sapiens
150 <400> SEQUENCE: 5
151 cgcgccggag ccaagatgcc tcgcggggac tcggagcagg tgcgtactg cgccgccttc 60
152 tcctatctttt ggctcaagtt ctctctcatc atctactcca ccgtgttctg gctgattggg 120
153 ggcctggcc tgcgttggg gatctacgca gaggcagagc ggcagaaata caaaaccctg 180
154 gaagagtgc ttcctggccc ccgcacatcat cctcatcctc ctgggggtgg tcatgttcat 240
155 cgtctccccc atcgggtgc tggctccctt ccggacacac ctgtgccttc tgcgtcggtt 300
156 tatgtatatc ctggggatct gcctggtcat ggagcttattt ggtgggtctg tatttagggg 360
157 cccggggaaac cagactatttgc acatgttgc gacacatcat cggagaggaa tgcagaatta 420
158 ctacgtatcat ctggacttca agaacatcat ggactttgtt cagaagaagt tcaagtgcgt 480
159 tggccggggag gactacagag actggagcaaa aaacocagttac catgactgca gccccccgg 540
160 gccccctggct gacgggggttc cttacacccgt ctgcgttgc aacacgttgc tgcgttgc 600
161 atgtgtggct acaaaaacaat cggacaaaggag cgcgttgc acatgttgc tgcgttgc 660
162 cggggcttgc ccaacggccgt gttgtatgg ttcgttgc acatgttgc tgcgttgc 720
163 ctttacttgcgttgc tccatgttgc tgcgttgc tgcgttgc 780

RAW SEQUENCE LISTING DATE: 09/10/2002
PATENT APPLICATION: US/10/016,253 TIME: 13:58:03

Input Set : A:\Cura042.app
Output Set: N:\CRF4\09102002\J016253.raw

164 acccgtgtgg aggacattat cttggagcac tctgtcacgg atggattgct gggacctgtt 840
165 gccaagtcca gaacggacac agcaggca ctggatgtcc tctgttatcc cgattagcta 900
166 tctgtattga gctatctgg cccggcacag cagctcccg ccggactgtt ctgc当地 960
167 catctaagac tacacaagct ggacaggacc agctgcagtc cctctgccc cccacggcgc 1020
168 tgaccaaagc ccagggtgta tgcacctgcg tatagtgtct gatggccact cctc当地 1080
169 gaaagctgaa ccctgtggg tcccgggaac agggatagcc cagctccgt tctgagtcct 1140
170 ggagaaggca gctcagggtc ccgtgtggc tcttttctt tctggcagtg ccttggccag 1200
171 tggcattat gccccttcaa gggcagttt gcagtgatta tttttaaagg caagaaggga 1260
172 gtgtatctgt tctataggga agtccctggt gcagccctgg tacactactc tagatgtgac 1320
173 gttggactgt gtctcaaatt cccaggtgcc ttgagtcctc tctaaggctc ctgcttgc 1380
174 cacccatattt ctacatatgt ttttttctt tttttttt aataaccgtt ttttgtatac 1440
175 aattaacaag agtttctggc tattcaaaaac tagccacccc tgaccgagtc cactcacccc 1500
176 tccccgttag ttcatattt gaacaataaa tatgtttttt ggggggttgt cttaaaaaaa 1560
177 aaaaaaaaaa
180 <210> SEQ ID NO: 6
181 <211> LENGTH: 300
182 <212> TYPE: DNA
183 <213> ORGANISM: Homo sapiens
185 <400> SEQUENCE: 6
186 gccggctctt tggggaggac tccatccatg accagttgt gcagaaaagt gtggaggaag 60
187 tagggaaat gaaaatcgcc gacccctgg acaggatac caaccatggc ccgc当地 120
188 atgaggccca cctgaggaag ctggtggagt attgccaacg tgggtgtgaag gaaggggcca 180
189 cactggctg tgggtggaaac caagtcccaa ggccaggctt cttcttcag ccaaccgtt 240
190 tcacagacgt ggaggaccac atgtacatcg ctaaggagga gtccttcggg cccatcatga 300
193 <210> SEQ ID NO: 7
194 <211> LENGTH: 965
195 <212> TYPE: DNA
196 <213> ORGANISM: Homo sapiens
198 <400> SEQUENCE: 7
199 cccacagctc ctgcccactc accaggtcca ggggagagca ggccgtgact cgatgacaag 60
200 tgcctttagt tgaagagcac atctcaactca ttccctctctc agtacctgtt acattcctct 120
201 gtgctaacc ccccttggg aggacccacc ctctggaggc tggacttggg gcaacacaggc 180
202 actcacctgt cactgccaag ggcgggcaagg ccatcttcc gagcccatgg gagccgggac 240
203 cactaagact gctgggggaa agaagttggg tgctggctg atggtcttc tttcttgg 300
204 ttttcgttg taatgtggct ggcccatgtt gttttatgt ttaatgtgt gcttataata 360
205 agaaaagagcc cccccaagct gtacattttt aaaaagtgtt catatactgtt atatagaaaa 420
206 atctagaagc acatatgaat gcagcaggtt gtattccact gtacccattt atgaaggtag 480
207 gttttattac aggactcgca ccaggtactt acagacgcgc cctctccctt ttgc当地 540
208 aaacagtac tgcattcccg cacagtccctt cagacccccc tacccttcc cctgttaggaa 600
209 attctccctgt gaccctctg ccgtcctccc ttacttcata aataaatgtt acggagtca 660
210 tgcaaaaaaa aaaaataaa tgacattttt tgggtttat aattttctcc taaaacaaaa 720
211 accagtggta tggtcataacc caccattgtt tcccaacttt ccatgaccgt cacaacatc 780
212 tgggatggc accttggatc caggaaaaatg tatgtttaa gaaatttctg gccaggcgtg 840
213 gtggcataca ccttaatcc cagcactcgg gaggcagagg caggtggatt tctgagttcg 900
214 aggccagcct ggtctacaaa gtgagttcca ggacagccag ggctacacag agaaaccctg 960
215 tctcg
218 <210> SEQ ID NO: 8
219 <211> LENGTH: 408
220 <212> TYPE: DNA

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/016,253

DATE: 09/10/2002

TIME: 13:58:03

Input Set : A:\Cura042.app
Output Set: N:\CRF4\09102002\J016253.raw

221 <213> ORGANISM: *Homo sapiens*

223 <400> SEQUENCE: 8

224 gccgggtctg aaaaggacta ggctggcatt ggtgacaccg agttgttgg cagccacaca 60
225 ggtatagttg ccatagtgtt cctcagtgac attggtcacc gtcagggagg actggccctc 120
226 agtgcctta atctcaaggc catttgact gtttatcctg gtgtcatccc ggtaccactc 180
227 aaagtcaaggc gcaggcaccg ctgaggcttc acatttgagg gaagcttgc gtcctgttgt 240
228 ggcttcgttg ctcttcgact ccgtgatagt gggtgatag ttcacagtga ccttgacttg 300
229 tttgacatcc gccgaggaga cctcggtggc agcctgcac tcataattgc ctgactgttc 360
230 cctggqtatq cctaqqatct ccaqatattc ttcttctcct tcaaatty 408

233 <210> SEO ID NO: 9

234 <211> LENGTH: 355

235 <212> TYPE: DNA

236 <213> ORGANISM: Homo sapiens

238 <400> SEQUENCE: 9

239 gtgcaccaga ttttctacga ggcccttagat aagtacggga acctcagtgc tctgggcttc 60
240 aagcgcaagg acaagtggga gcttatctct tactgccagt actacctgtat tgacacgcaaa 120
241 gtagccaaag gtttcttgaa gctcggccta gagcgtgccc acagcgtggc gatccttggc 180
242 ttcaactctc cagaatgtt ctctctgtca gtgggcacag ttgcgcagg gggcattgtc 240
243 actggcatct acaccaccag ctccccggag gcctgccagt acatctctca tgactgccga 300
244 gccaatgtca tcgtgggtta cacacagaag cagctggaaa agatcctgaa gatct 355

247 <210> SEQ ID NO: 10

248 <211> LENGTH: 918

249 <212> TYPE: DNA

250 <213> ORGANISM: *Homo sapiens*

252 <400> SEQUENCE: 10

271 <210> SEQ ID NO: 11

272 <211> LENGTH: 1113

272 <211> LENGTH: 1
273 <213> TYPE: DNA

374 <213> ORGANISM: Homo sapiens

274 <213> ORGANISM: HO
276 <100> SEQUENCE: 11

276 <400> SEQUENCE: 11
277 ggagacccaa gatctgaacc agccagccag gtgctgcaca gcctcaactt tgggagcaga 60
278 ggcctgtgg ggttaatttg ggtctgccag aaacagtgtc tcccgcaggg aaaatcttgg 120
279 atcaagatgg aggctgtctt gaaacactgt gtgttcaag ggagaaaadag tggaaaccgt 180

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/016,253

DATE: 09/10/2002

TIME: 13:58:04

Input Set : A:\Cura042.app

Output Set: N:\CRF4\09102002\J016253.raw

L:13 M:271 C: Current Filing Date differs, Replaced Current Filing Date